This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- (Original) Use of at least one of the substrates selected from the group consisting of FDP, DDAO, DiFMUP, ELF[®]39 phosphate and ELF[®]97 phosphate for the detection, characterization and qualitative and/or quantitative determination of the activity of a phosphoamidase.
- 2. (Original) The use of claim 1 wherein the phosphoamidase is a protein phospho-amidase.
- 3. (Original) The use of claim 2 wherein the protein phosphoamidase is a protein histidine phosphoamidase.
- 4. (Original) The use of claim 3 wherein the protein histidine phosphoamidase is PHP1.
- 5. (Original) A method for the identification of an inhibitor or activator of a phosphoamidase comprising the steps:
- a) establishing a sample comprising a phosphoamidase and a test substance,
- b) administering a substrate selected from the group consisting of FDP, DDAO, DiFMUP, ELF®39 phosphate and ELF®97 phosphate to the sample,
- c) detecting the signal produced by the substrate, and
- d) identifying the test substance as an activator or inhibitor of the phosphoamidase by comparing the signal produced in the sample comprising the test substance with the signal produced in a control sample comprising no test substance.
- 6. (Original) A method for the identification of the activity of a phosphoamidase in a electrophoresis gel or on a blot membrane comprising the steps:
- a) separating a sample comprising a phosphoamidase in a gel
- b) if necessary, renaturation of the phosphoamidase

- c) incubating the gel or the blot membrane resulting from blotting the gel with ELF®39 phosphate and/or ELF®97 phosphate as substrate, and
- d) detecting the signal produced by the substrate
- 7. (Original) A method for the determination of the specifity of an inhibitor or activator for a certain phosphoamidase or phosphatase comprising the steps:
- a) separating a sample comprising several phosphoamidases and/or phosphatases in a gel
- b) if necessary, renaturation of the phosphoamidase
- c) incubating the gel or the blot membrane resulting from blotting the gel with the inhibitor or activator and subsequently with ELF®39 phosphate and/or ELF®97 phosphate as substrate, and
- d) determining the specificity of the inhibitor or activator by comparing the signal produced in the gel or blot membrane incubated with the inhibitor or activator with the signal produced in a control gel or blot mambrane not incubated with the inhibitor or activator.
- 8. (Currently Amended) A method according to <u>claim 5</u> any of the claims 5 to 7 wherein the phosphoamidase is a protein phosphoamidase.
- 9. (Original) A method according to claim 8 wherein the protein phosphoamidase is a protein histidine phosphoamidase.
- 10. (Original) A method according to claim 9 wherein the protein histidine phosphoamidase is PHP1.